



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.: 10/036,658)
Filed: December 21, 2001)
Examiner: Not Known)
For: **INTERFACE FOR A**)
 TELECOMMUNICATION)
 SYSTEM)
Applicant: Michael Brian Bonn)
 R. Ravichandran)
Atty Docket No.: 1777/39149)
 Case 1)

Certificate of Mailing by "Express Mail"

Mailing Label Number EL918868105US

Date of Deposit: February 13, 2002

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Jennifer Moravek
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TRANSMITTAL OF SUBSTITUTE INFORMAL DRAWINGS

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The above-captioned application was filed with informal drawings. A Notice To File Corrected Application Papers (a copy of which is enclosed herewith) was sent to Applicant because the informal drawings were not in compliance with 37 C.F.R. 1.84 due to the drawing sheets not having the appropriate margins. Therefore, please find enclosed herewith seven (7) substitute informal drawings which comply with 37 C.F.R. 1.84 and six substitute appendix pages. No new matter has been included in these drawings. Accordingly, it is respectfully requested that these drawings be accepted and placed in the file of the above-referenced application.

Respectfully submitted,

Date: 2/13/02

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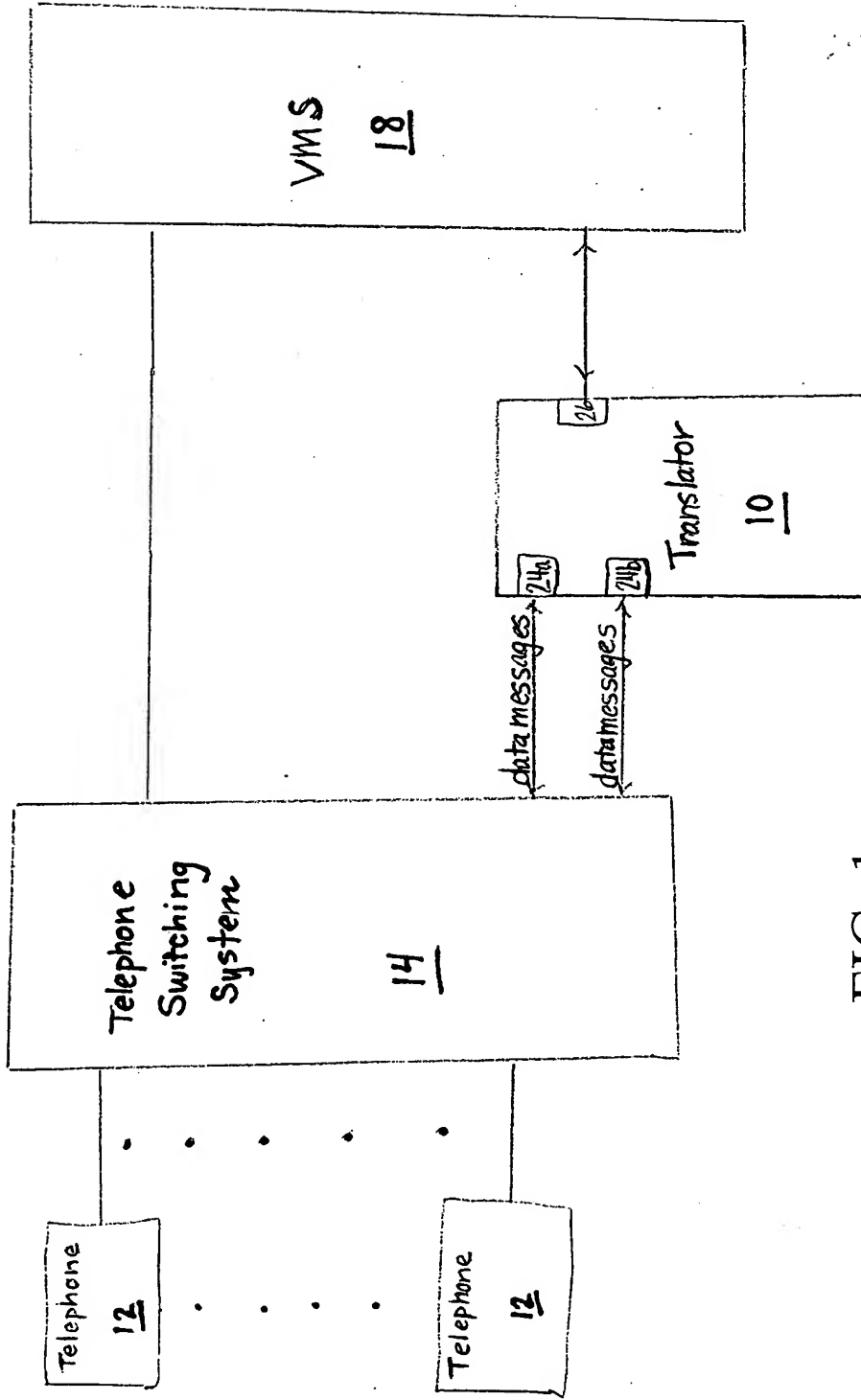


FIG. 1

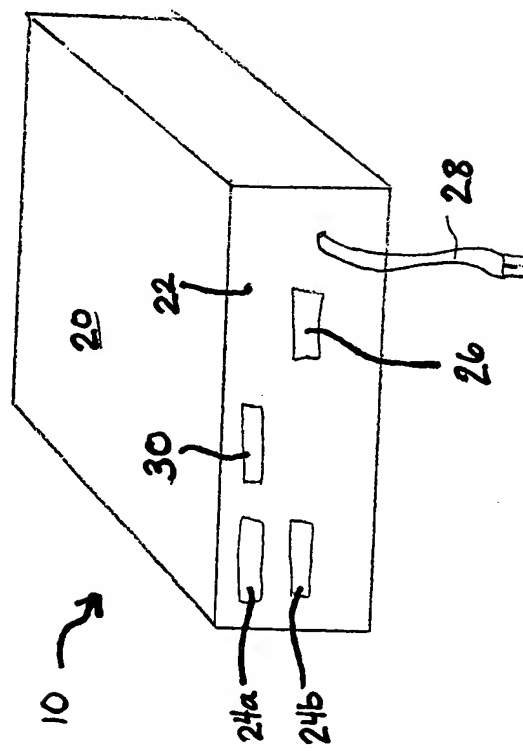


FIG. 2a

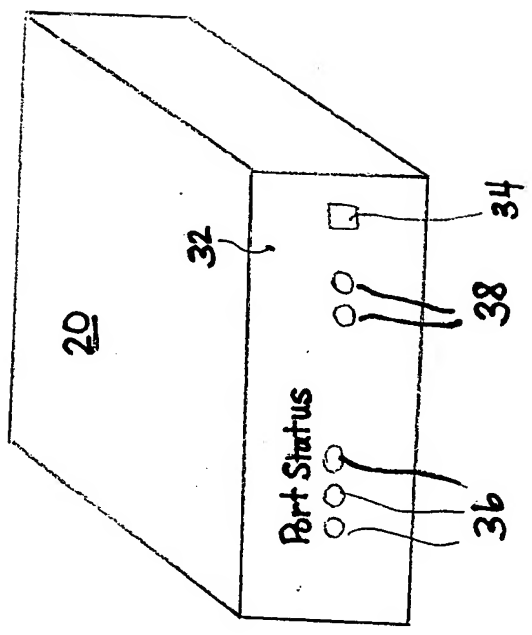


FIG. 2b

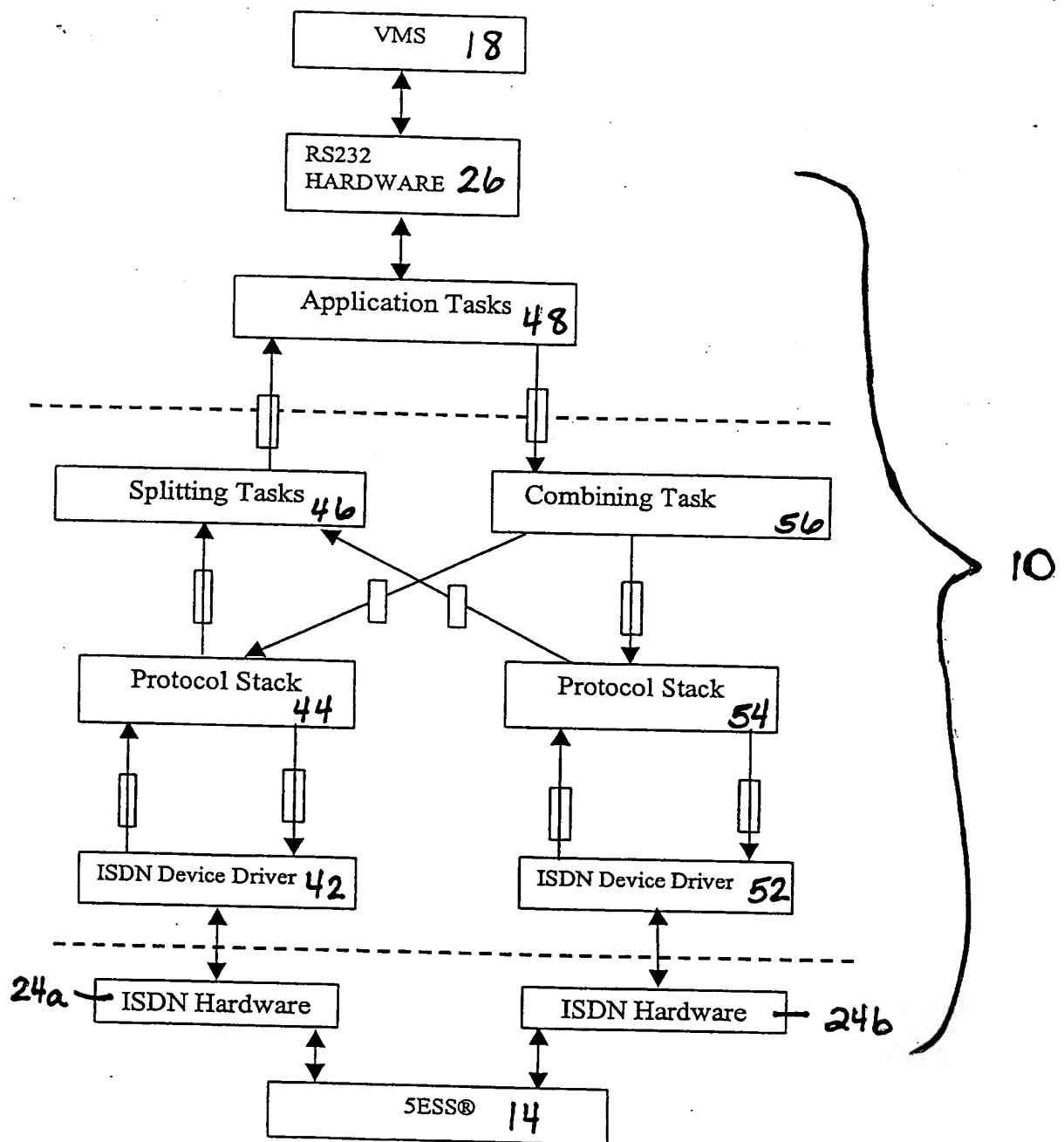


FIG. 3

ISDN DRIVER (Interrupt Service Routine)

FIG. 4a

If the Cause of Interrupt IS A New frame received

Receive the frame from SESS switch through the hardware in a temporary buffer

Test for its integrity

If it a good frame Forward it to the Protocol Stack, else discard it

End If

If the Cause of Interrupt IS Link Deactivated

Reset the protocol stack

Link_Deactivated=TRUE

End If

If the Cause of Interrupt IS Link Activated AND Link_Deactivated=TRUE

Link_Activated=FALSE

Power up the protocol stack

End If

PROTOCOL STACK

FIG. 4b

The protocol stack consists of three sub-layers each implementing the data link, network and transportation layer of the protocol. Each layer does the following processing

FOREVER

1. Wait for a 5E Frame.
2. Determine if the frame is a control packet or a data packet
3. If it is a control packet
 - a. Send an appropriate response (varies for error Control, flow control, link integrity checking etc.) to the lower layer.
 - b. Based on the type of the control packet, take the stack to a different state.
4. If the received packet is a data packet without errors AND the stack is in Data Transfer State, forward it to the upper layer of the stack. (Upper layer for the three sub-layers will be network layer, transportation layer and splitting task)

END FOREVER

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SPLITTING TASK:

FOREVER

1. Read the message from the protocol stack.
2. Split the message into individual call messages.
3. Forward it to the application task

END FOREVER

FIG. 4c

APPLICATION TASK:

FOREVER

1. Read the message delivered by the Splitting Task
2. Translate the message from the 5ESS format to 1AESS format

3. Deliver it to the VMS through the RS232 Hardware
END FOREVER

FIG. 4d

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I **E** **T** **A** **S** **O** **N** **D** **R** **E** **G** **E** **N** **C** **E** **S**

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1.Receive the message from the VMS through the RS232 hardware
2. Translate the message from the 1AESS format to the 5ESS format
3. Forward it to the COMBINING TASK
END FOREVER

```

COMBINING TASK:

FOREVER

If both the links are in a working condition

If LinkToBeSent=0 then LinkToBeSent=1 else LinkToBeSent=0

If one of the links is failed, send it to the stack corresponding to the healthy link.

FIG. 4f

PROTOCOL STACK

Stands Blocked until the protocol stack is in the DATA TRANSFER STATE.

FOREVER

Wait for a Message from the COMBINING TASK

Receive in a temporary buffer and Append Control Information to the translated message.

Forward it to the ISDN Device Driver

END FOREVER

FIG. 4g

ISDN DRIVER (Interrupt Service Routine)

IF the cause of the Interrupt is "Ready for Transmission"

 If the input message queue has any message

 Transmit it to the SESS Switch through the hardware

 End If

End If

FIG. 4h